IN THE CLAIMS

Claims 1-17 (Previously Canceled)

Claims 18-21 (Cancel)

22. (Amended) A minimally invasive surgical method for fixing adjacent vertebrae, comprising:

sequentially dilating skin and tissue with a number of dilators, of which an outer dilator provides to provide an access portal to a disc space between the adjacent vertebrae; and fusing the adjacent vertebrae with material introduced through the sequentially dilated portal.

- 23. (Amended) The method of claim 23, claim 22, further comprising performing a discectomy through the access portal before fusing the adjacent vertebrae.
- 24. (Original) The method of claim 22, further comprising securing fixation instrumentation to the adjacent vertebrae.
- 25. (Original) The method of claim 24, wherein the fixation instrumentation is secured to the pedicles of the adjacent vertebrae.
 - 26. (Original) The method of claim 22, further comprising:

sequentially dilating skin and tissue to provide a second access portal to a disc space

between the adjacent vertebrae; and

visualizing the disc space through the second access portal.

27. (Original) The method of claim 22, wherein the material includes bone graft

material.

28. (Original) The method of claim 27, further comprising:

sequentially dilating skin and tissue to provide a second access portal to a disc space

between the adjacent vertebrae; and

visualizing the delivery of bone graft material to the disc space through the access portal

with a viewing instrument in the second access portal.

29. (Original) The method of claim 22, wherein sequentially dilating the skin and tissue

includes placing at least three dilator tubes of increasing inner bore diameter one over the other

and withdrawing the inner dilator tubes to provide the access portal to the disc space through the

last inserted dilator tube.

30. (Original) A minimally invasive surgical system for fusing adjacent vertebrae,

comprising:

at least three tissue dilators each including a bore therethrough, said bores being of

increasing diameter wherein said at least three tissue dilators are positionable one over the other

First Office Action Response Ser. No. 09/519,295 Atty Docket No. 4002-2270 to sequentially dilate tissue to provide access through tissue to at least one of the adjacent vertebrae;

at least one bone screw engageable to each of the adjacent vertebrae; and an elongated fixation element extendable between the adjacent vertebrae when implanted and engageable to each bone screw engaged to the adjacent vertebrae.

- 31. (Original) The system of claim 30, further comprising a guide wire for guiding placement of the at least three tissue dilators.
- 32. (Original) The system of claim 30, further comprising bone graft material positionable in a spinal disc space between the adjacent vertebrae.
- 33. (Original) The system of claim 30, wherein the elongated fixation element is a plate.
- 34. (New) A three component dilator system for use in implantation of a bone screw into a vertebra, comprising:
 - a first tubular dilator having a tapered end, a first length and a first diameter;
 - a second tubular dilator having a tapered end, a second length and a second diameter;
 - a third tubular dilator having a tapered end, a third length and a third diameter;
 - a bone screw, wherein said first diameter is sized to receive said bone screw

therethrough; and

wherein said first length is shorter than said second length which is shorter than said third length.

35. (New) The three component dilator system of claim 34, wherein:

said second tubular dilator has a second end opposite said tapered end, said second dilator having a knurled outer surface adjacent said second end; and

said third tubular dilator has a second end opposite said tapered end, said third dilator having a knurled outer surface adjacent said second end.

36. (New) The system of claim 34, wherein said first diameter is at least 5.5 millimeters.

37. (New) A minimally invasive surgical method for fixing adjacent vertebrae, comprising:

sequentially dilating skin and tissue to provide an access portal to a disc space between the adjacent vertebrae; and

fusing the adjacent vertebrae with material introduced through the sequentially dilated portal; and

securing fixation instrumentation to pedicles of the adjacent vertebrae.

38. (New) The method of claim 37, further comprising performing a discectomy through the access portal before fusing the adjacent vertebrae.

39. (New) The method of claim 37, further comprising:

sequentially dilating skin and tissue to provide a second access portal to a disc space between the adjacent vertebrae; and

visualizing the disc space through the second access portal.

40. (New) The method of claim 37, wherein the material includes bone graft

41. (New) The method of claim 40, further comprising:

sequentially dilating skin and tissue to provide a second access portal to a disc space

between the adjacent vertebrae; and

material.

visualizing the delivery of bone graft material to the disc space through the access portal with a viewing instrument in the second access portal.

42. (New) The method of claim 37, wherein sequentially dilating the skin and tissue includes placing at least three dilator tubes of increasing inner bore diameter one over the other and withdrawing the inner dilator tubes to provide the access portal to the disc space through the last inserted dilator tube.

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